CLAIMS:

1. A method for processing a video signal, comprising the steps of:

creating a plurality of temporal interpolated frames between original frames of the video signal using temporal interpolation;

temporally filtering said plurality of temporal interpolated frames and original frames.

2. The method according to claim 1, further comprising the step of:

combining output of each temporal filter stage output into one filtered output frame per original frame.

3. The method according to claim 1, wherein the input signal is de-interlaced prior to the temporal interpolation.

4. The method according to claim 1, wherein the temporal interpolation uses motion estimation and motion compensation.

5. The method according to claim 1, wherein the temporal interpolation creates calculated motion vectors.

6. The method according to claim 4, wherein the calculated motion vectors are scaled according to desired time moment of the interpolated frame.

7. The method according to claim 1, wherein the temporal interpolation uses bi-directional motion estimation and compensation.

8. The method according to claim 1, wherein the temporal interpolation uses natural motion.

9. An apparatus for processing a video signal, comprising:

a temporal interpolation unit (106) for creating a plurality of temporal interpolated frames between original frames of the video signal using temporal interpolation;

a temporal filter unit (108) for temporal filtering said plurality of temporal interpolated frames and original frames;

an accumulator (112) for accumulating the outputs of the filter to produce an output video signal.

10. The apparatus according to claim 9, further comprising:

de-interlacing means (104) for de-interlacing the video signal .